

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062220\  
 Data File : VX016922.D  
 Acq On : 22 Jun 2020 15:50  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/23/2020 11:03:05 AM

Quant Time: Jun 23 08:01:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 19 12:07:48 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.62  | 168  | 343913   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 614674   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 580002   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 256270   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 186050   | 44.98  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 89.96% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 160263   | 40.76  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 81.52% |          |
| 50) Toluene-d8              | 8.70  | 98   | 623170   | 39.61  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 79.22% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 246171   | 40.84  | ug/l   | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |        |          |
|                             |       |      | Recovery | =      | 81.68% |          |

| Target Compounds              | R.T. | QIon | Response | Conc    | Units | Qvalue |
|-------------------------------|------|------|----------|---------|-------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85   | 205791   | 48.759  | ug/l  | 99     |
| 3) Chloromethane              | 1.31 | 50   | 189913   | 44.377  | ug/l  | 99     |
| 4) Vinyl Chloride             | 1.39 | 62   | 237423   | 49.224  | ug/l  | 98     |
| 5) Bromomethane               | 1.62 | 94   | 119506   | 41.149  | ug/l  | 100    |
| 6) Chloroethane               | 1.71 | 64   | 139952   | 47.112  | ug/l  | 99     |
| 7) Trichlorofluoromethane     | 1.92 | 101  | 309607   | 45.884  | ug/l  | 97     |
| 8) Diethyl Ether              | 2.17 | 74   | 130343   | 49.684  | ug/l  | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101  | 183026   | 50.924  | ug/l  | 97     |
| 10) Methyl Iodide             | 2.49 | 142  | 101040   | 29.530  | ug/l  | 96     |
| 11) Tert butyl alcohol        | 3.01 | 59   | 183846   | 262.929 | ug/l  | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96   | 182322   | 49.609  | ug/l  | 97     |
| 13) Acrolein                  | 2.27 | 56   | 172996   | 408.071 | ug/l  | 100    |
| 14) Allyl chloride            | 2.70 | 41   | 257404   | 52.949  | ug/l  | 95     |
| 15) Acrylonitrile             | 3.11 | 53   | 435319   | 271.678 | ug/l  | 98     |
| 16) Acetone                   | 2.42 | 43   | 366275   | 243.939 | ug/l  | 99     |
| 17) Carbon Disulfide          | 2.55 | 76   | 433425   | 45.634  | ug/l  | 99     |
| 18) Methyl Acetate            | 2.75 | 43   | 213582   | 55.939  | ug/l  | 98     |
| 19) Methyl tert-butyl Ether   | 3.16 | 73   | 537460   | 51.315  | ug/l  | 99     |
| 20) Methylene Chloride        | 2.83 | 84   | 172965   | 48.036  | ug/l  | 96     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96   | 168717   | 48.633  | ug/l  | 99     |
| 22) Diisopropyl ether         | 3.82 | 45   | 510834   | 54.846  | ug/l  | 96     |
| 23) Vinyl Acetate             | 3.78 | 43   | 2130339  | 277.378 | ug/l  | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63   | 292957   | 50.354  | ug/l  | 99     |
| 25) 2-Butanone                | 4.62 | 43   | 603884   | 292.233 | ug/l  | 97     |
| 26) 2,2-Dichloropropane       | 4.54 | 77   | 306807   | 56.287  | ug/l  | 100    |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96   | 222891   | 57.163  | ug/l  | 97     |
| 28) Bromochloromethane        | 4.98 | 49   | 121574   | 50.347  | ug/l  | 92     |
| 29) Tetrahydrofuran           | 5.08 | 42   | 359126   | 275.944 | ug/l  | 96     |
| 30) Chloroform                | 5.17 | 83   | 294656   | 47.972  | ug/l  | 99     |
| 31) Cyclohexane               | 5.54 | 56   | 262177   | 51.257  | ug/l  | 99     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97   | 265247   | 45.627  | ug/l  | 100    |
| 36) 1,1-Dichloropropene       | 5.76 | 75   | 226207   | 39.857  | ug/l  | 99     |
| 37) Ethyl Acetate             | 4.79 | 43   | 221744   | 44.220  | ug/l  | 99     |
| 38) Carbon Tetrachloride      | 5.75 | 117  | 232635   | 36.531  | ug/l  | 98     |

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 Data File : VX016922.D  
 Acq On : 22 Jun 2020 15:50  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 6/23/2020 11:03:05 AM

Quant Time: Jun 23 08:01:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 19 12:07:48 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 271155   | 41.090  | ug/l   | 96       |
| 40) Benzene                    | 6.11  | 78   | 680948   | 39.986  | ug/l   | 99       |
| 41) Methacrylonitrile          | 4.99  | 41   | 122769   | 45.096  | ug/l   | 98       |
| 42) 1,2-Dichloroethane         | 6.16  | 62   | 227647   | 37.566  | ug/l   | 99       |
| 43) Isopropyl Acetate          | 6.41  | 43   | 460175   | 52.550  | ug/l   | 98       |
| 44) Trichloroethene            | 7.18  | 130  | 229721   | 44.047  | ug/l   | 97       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 174880   | 40.850  | ug/l   | 97       |
| 46) Dibromomethane             | 7.63  | 93   | 117796   | 40.574  | ug/l   | 98       |
| 47) Bromodichloromethane       | 7.87  | 83   | 241668   | 39.139  | ug/l   | 98       |
| 48) Methyl methacrylate        | 7.74  | 41   | 178578   | 43.307  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 7.71  | 88   | 85979    | 931.457 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1103954  | 209.600 | ug/l   | 100      |
| 52) Toluene                    | 8.76  | 92   | 440124   | 38.959  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 286809   | 42.251  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 304880   | 41.983  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 179048   | 41.977  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 277834   | 44.994  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 299753   | 41.454  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.29  | 63   | 638212   | 222.126 | ug/l   | 97       |
| 59) 2-Hexanone                 | 9.47  | 43   | 833045   | 218.409 | ug/l   | 99       |
| 60) Dibromochloromethane       | 9.56  | 129  | 209637   | 40.970  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 9.65  | 107  | 222878   | 48.149  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 187303   | 34.874  | ug/l   | 99       |
| 65) Chlorobenzene              | 10.12 | 112  | 560247   | 47.701  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 219151   | 48.145  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.23 | 91   | 969649   | 48.932  | ug/l   | 98       |
| 68) m/p-Xylenes                | 10.34 | 106  | 648526   | 84.101  | ug/l   | 100      |
| 69) o-Xylene                   | 10.68 | 106  | 311010   | 43.618  | ug/l   | 99       |
| 70) Styrene                    | 10.70 | 104  | 553857   | 45.717  | ug/l   | 99       |
| 71) Bromoform                  | 10.84 | 173  | 162668   | 42.505  | ug/l # | 98       |
| 73) Isopropylbenzene           | 11.00 | 105  | 840538   | 50.942  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 342599   | 59.462  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 242943   | 52.144  | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 239802m  | 51.236  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 224220   | 49.827  | ug/l   | 98       |
| 78) n-propylbenzene            | 11.34 | 91   | 959405   | 52.101  | ug/l   | 100      |
| 79) 2-Chlorotoluene            | 11.40 | 91   | 574132   | 50.958  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 719615   | 50.548  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.05 | 75   | 94079    | 49.224  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.49 | 91   | 672438   | 49.749  | ug/l   | 98       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 697659   | 49.530  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 725485   | 49.471  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 794008   | 48.537  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 755773   | 50.423  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 391436   | 47.613  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 393780   | 47.361  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 648053   | 50.420  | ug/l   | 99       |
| 90) Hexachloroethane           | 12.58 | 117  | 147586   | 54.662  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 373012   | 46.999  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 63075    | 57.096  | ug/l   | 98       |

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
6/23/2020 11:03:05 AM

Quant Time: Jun 23 08:01:02 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061820W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 19 12:07:48 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 312387   | 58.615 | ug/l  | 98       |
| 94) Hexachlorobutadiene    | 13.76 | 225  | 110389   | 45.902 | ug/l  | 98       |
| 95) Naphthalene            | 13.82 | 128  | 948032   | 60.591 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 305895   | 57.554 | ug/l  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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